

Abstract

When wireless communications systems are operating in the same
5 general area, collisions between their transmissions are bound to occur.
The collisions reduce the performance in the networks. In some wireless
communications systems that use a fixed or prespecified transmission
frequency pattern, a look-ahead technique that investigates the quality of
the communications channel at the upcoming transmission frequencies can
10 be used to allow or disallow transmissions. Additionally, a maximum length
of a transmission can be determined based on the quality of the
transmission frequency. Finally, if the communications system is controlled
by a centralized controller, moving the controller away from sources of
interference will often improve performance.